

Search results  
 SN 01/888860  
 pn 9

| L Number | Hits  | Search Text   | DB  | Time stamp          |
|----------|-------|---|---|---------------------|
| 1        | 18738 | cytomegalovirus or CMV  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>10:59 |
| 2        | 1679  | (cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter)                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>11:01 |
| 4        | 281   | ((cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter)) same enhancer    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>11:01 |
| 5        | 85    | ((cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter)) adj5 enhancer    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>11:01 |
| 6        | 6     | (cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter).ti.                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>11:02 |
| 7        | 0     | ((cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter).ti.) and enhancer | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>11:02 |
| 8        | 3     | ((cytomegalovirus or CMV) adj (immediate adj early adj promoter or ie adj promoter).ti.) and enhancer | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:16 |
| 9        | 319   | toxic adj gene  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:16 |
| 12       | 61    | (toxin or toxic) adj gene adj expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:27 |
| 13       | 1     | ((toxin or toxic) adj gene adj expression) and HIV adj env  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:19 |
| 14       | 34    | HIV adj env adj5 expression   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:22 |
| 15       | 23    | (HIV adj env adj5 expression) same vector   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:20 |
| 16       | 16    | ((HIV adj env adj5 expression) same vector) and bacteria and mammalian                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:20 |

|    |    |  |   |                     |
|----|----|--|---|---------------------|
| 17 | 26 | HIV adj env adj2 expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:21 |
| 18 | 19 | HIV adj env adj expression   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:21 |
| 19 | 0  | HIV adj env adj5 expression same bacteria  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:22 |
| 20 | 3  | (toxin or toxic) adj gene adj expression same bacteria   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:23 |
| 21 | 62 | bacterial and (toxin or toxic) adj gene adj2 expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:26 |
| 22 | 0  | (bacterial and (toxin or toxic) adj gene adj2 expression) and polya and promtoer                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:24 |
| 23 | 4  | (bacterial and (toxin or toxic) adj gene adj2 expression) and polya and promoter                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:24 |
| 24 | 33 | (bacterial and (toxin or toxic) adj gene adj2 expression) and (polya or polyadenylation) same promoter | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:25 |
| 25 | 3  | (bacterial and (toxin or toxic) adj gene adj2 expression) and (polya or polyadenylation) same CMV      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:25 |
| 26 | 3  | bacterial adj system and (toxin or toxic) adj gene adj2 expression                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:26 |
| 27 | 33 | ((toxin or toxic) adj gene adj expression) and bacteria  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:27 |
| 28 | 45 | (env) adj gene adj expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:28 |
| 29 | 17 | (env) adj gene adj expression and HIV and bacteria   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:29 |
| 30 | 0  | (env) adj gene adj expression same bacteria same HIV   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:29 |

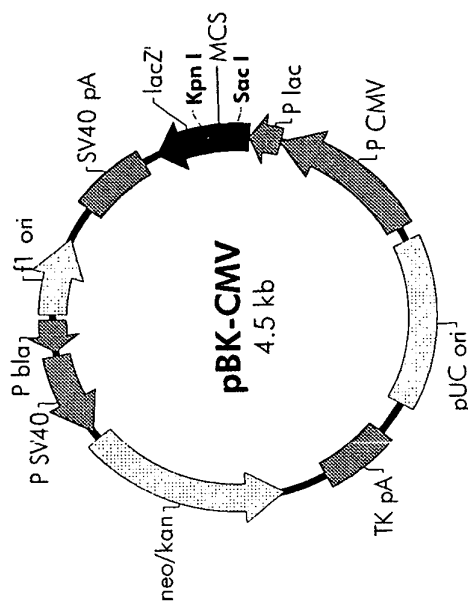
|    |      |  |   |                     |
|----|------|--|---|---------------------|
| 31 | 30   | env same bacteria same HIV   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:29 |
| 32 | 28   | env same bacteria same HIV and expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:29 |
| 33 | 11   | env same bacteria same HIV same expression   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:53 |
| 34 | 1432 | weiner.in.   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:55 |
| 35 | 106  | weiner.in. and (vector or plasmid) and expression  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:55 |
| 36 | 65   | weiner.in. and (vector or plasmid) and expression and promoter   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:55 |
| 37 | 38   | weiner.in. and (vector or plasmid) and expression and polyadenylation same promoter                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:56 |
| 38 | 36   | weiner.in. and (vector or plasmid) same polyadenylation same promoter and bacteria                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:56 |
| 39 | 36   | weiner.in. and (vector or plasmid) same polyadenylation same promoter and bacteria and expression                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>12:57 |
| 40 | 18   | weiner.in. and (vector or plasmid) same polyadenylation same promoter and bacteria same (expression or production) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>13:01 |
| 41 | 12   | weiner.in. and (HIV adj env)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>13:04 |
| 42 | 4    | (HIV adj env) same (plasmid or vecrtor or recombinant) same antisense  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>13:04 |
| 43 | 4    | (HIV adj env) same (plasmid or vector or recombinant) same antisense   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>13:05 |
| 44 | 1    | (toxin adj gene) same (plasmid or vector or recombinant) same antisense same bacteria                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/03/07<br>13:06 |

(FILE 'HOME' ENTERED AT 12:32:44 ON 07 MAR 2003)

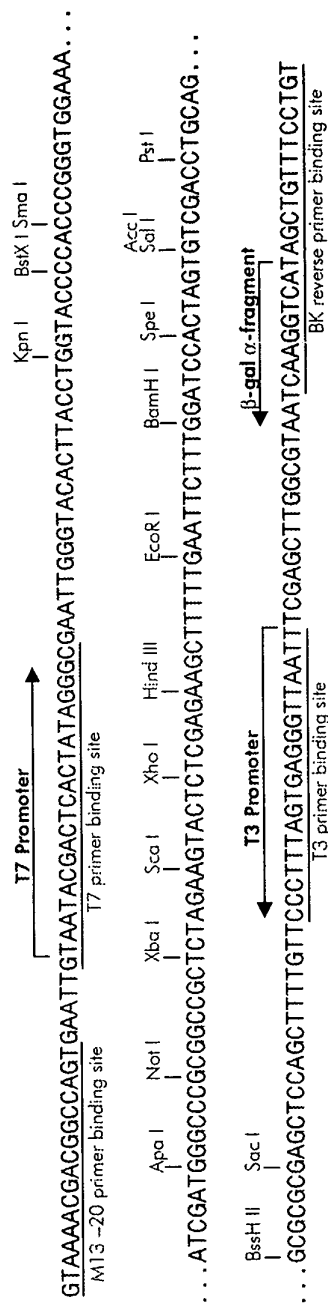
FILE 'MEDLINE, CAPLUS' ENTERED AT 12:32:52 ON 07 MAR 2003

L1 2733 S EXPRESSION (S) SYSTEM (S) (TOXIN OR TOXIC OR TOXICITY)  
L2 125 S L1 (S) BACTERIA  
L3 0 S L2 AND HIV (A) ENV  
L4 0 S L2 AND HIV (A) ENV  
L5 11 S EXPRESSION (S) SYSTEM (S) (HIV (A) ENV)  
L6 0 S L5 AND BACTERIA  
L7 9 DUP REMOVE L5 (2 DUPLICATES REMOVED)  
L8 5 S L7 AND PY<=2000  
L9 1 S TOXICITY (S) (HIV (A) ENV) (S) EXPRESSION  
L10 2 S TOXICITY (S) HIV (A) (ENV OR ENVELOPE) (S) EXPRESSION  
L11 0 S BACTERIA (S) HIV (A) (ENV OR ENVELOPE) (S) EXPRESSION  
L12 28 S BACTERIA (S) (TOXIN OR TOXIC) (A) GENE (S) EXPRESSION  
L13 28 DUP REMOVE L12 (0 DUPLICATES REMOVED)  
L14 20 S L13 AND PY<=2000  
L15 9 S L14 AND (VECTOR OR PLASMID)  
L16 177 S (TOXIN OR TOXIC) AND GENE (S) EXPRESSION (S) BACTERIA AND (PL  
L17 131 S (TOXIN OR TOXIC) (S) EXPRESSION (S) BACTERIA AND (PLASMID OR  
L18 40 S (TOXIN OR TOXIC) (5A) EXPRESSION (S) BACTERIA AND (PLASMID OR  
L19 37 DUP REMOVE L18 (3 DUPLICATES REMOVED)  
L20 28 S L19 AND PY<=2000  
L21 13 S L20 AND PROMOTER

**f1 origin** 24-330  
**SV40 polyA** 469-750  
 **$\beta$ -galactosidase  $\alpha$ -fragment** 812-1183  
**multiple cloning site** 1015-1122  
**lac promoter** 1184-1305  
**CMV promoter** 1306-1895  
**pUC origin** 1954-2621  
**HSV-TK polyA** 2760-3031  
**neomycin/kanamycin resistance ORF** 3209-4000  
**SV40 promoter** 4035-4373  
**bla promoter** 4392-4518



# **pBK-CMV Multiple Cloning Site Region** **(sequence shown 952-1196)**



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**pBK-CMV Phagemid Vector**

- Allows both prokaryotic and eukaryotic expression
- pBK-CMV rescued from ZAP Express® lambda vector
- MCS contains 17 unique sites

**Applications**

- Directional sense and antisense insert cloning with cDNA synthesis kit
- Creation of serial exo/mung deletions
- f1 origin allows rescue of single-stranded DNA
- Double- and single-stranded sequencing

**Selection**

- Kanamycin resistance in bacteria and G418 resistance in eukaryotic cells
- Blue/white color screening in *E. coli*

**Screening**

- By functional assays or nucleic acid probes

**Promoters/Transcription/Expression**

- In vitro RNA transcription with T3 or T7 RNA polymerase
- Contains CMV promoter for eukaryotic expression###
- lac* promoter for prokaryotic expression
- Allows expression of fusion proteins

**Prokaryotic Expression**

Prokaryotic expression is driven by the *lac* promoter, which is repressed in the presence of the LacI protein and is inducible in the presence of IPTG. The pBK polylinker is placed downstream from this promoter in the amino terminus of the  $\alpha$ -complementing portion of the  $\beta$ -galactosidase gene, allowing blue/white color screening of clones with insert. Colonies containing vector with no insert will stain blue in the presence of X-gal and IPTG, while those colonies containing vector with insert will be white. Colonies with insert can express the inserted gene as a fusion protein and can be screened for expression using antibody probes. Selection of kanamycin-resistant clones is driven by the *bla* ( $\beta$ -lactamase) promoter in bacteria.

**Eukaryotic Expression**

Eukaryotic expression is driven by the CMV immediate early promoter. The SV40 polyadenylation fragment provides signals required for termination of transcription and polyadenylation. An intron has been placed downstream from the insert, with the 5' splice site between the *Kpn* I site and the T7 promoter and the 3' splice site downstream from the *lacZ* sequences. Stable selection of clones in eukaryotic cells is made possible by the presence of the neomycin/kanamycin-resistance gene, which is driven by the SV40 early promoter with TK transcription termination and polyadenylation signals.

**Polylinker and ssDNA Rescue**

Se

Prod

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The polylinker contains 17 unique sites organized with 5' and 3' overhangs allowing serial exo/mung deletions. Sites with compatible restriction overhangs, such as *Spe* I/*Xba* I and *Sal* I/*Xho* I, have been placed on opposite sides of the *Eco*R I site to allow directional cloning of both sense and antisense inserts with the ZAP Express® cDNA synthesis kit. The f1 origin is in the minus orientation. ssDNA containing the insert antisense strand can be prepared with M13 helper phage.

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#### Vector Details

##### pBK-CMV

| Sequence | Restriction Sites | Vector Map |
|----------|-------------------|------------|
|----------|-------------------|------------|

Found 1 Catalog Items | Displaying 1 - 1

#### Amount

Catalog# Stock Price in US DOLLARS

#### pBK-CMV Vector

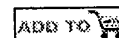
Allows both prokaryotic and eukaryotic expression: pBK-CMV phagemid vector, Host strain: XL1-Blue MRF', Helper phage: R408

20 µg

212209



270.00



shopping cart

#### Manuals

212209 pBK-CMV Phagemid Vector

#### References

1. Altling-Mees, M.A., et al. (1992) *Strategies*. 5: 58-61.

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